

Title (en)

DISPLAYING NON-LINEAR IMAGES ON LINEAR DISPLAYS

Title (de)

ANZEIGEN NICHTLINEARER BILDER AUF LINEAREN DISPLAYS

Title (fr)

AFFICHAGE D'IMAGES NON LINEAIRES SUR DES AFFICHEURS LINEAIRES

Publication

EP 1908052 A1 20080409 (EN)

Application

EP 06787262 A 20060713

Priority

- US 2006027326 W 20060713
- US 18075105 A 20050713

Abstract (en)

[origin: WO2007009057A1] System and method for gray scale mapping for displaying non-linear images on linear displays (see figure 5). A preferred embodiment comprises applying a linearizing function to a non-linear image to produce a linear image (505), selecting a picture element in the linear image (515), determining a first gray shade (520) and a second gray shade (525) based upon the picture element, computing a dither percentage (530), and selecting either the first gray shade (540) or the second gray shade (545) based upon the dither percentage and a threshold value. The dithering can reduce the presence of contouring, which reduces image quality, while non-linear spacing between gray shades permits the optimization of pulse width modulation sequences to reduce transition artifacts.

IPC 8 full level

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